Interim Structural and Operational Plan Modeling Assumptions

The South Florida Water Management Model (SFWMM) version 3.8 was used in continuous simulation mode (31 year simulation using 1965 to 1995 climatic data set) to simulate 95 Base, which has current normal structure operations and demands with Test 7 phase I operations in South Dade Conveyance System (SDCS). Specific operations of the 95 Base and operations for the South Dade Conveyance System are give in Table 1 below.

Table 1. Operational assumptions as used in the SFWMM v3.8.

	95 Base
Regulation Schedule	Current C&SF regulation schedules throughout system
S-343 A/B and S-344	Per current WCA-3A regulation schedule.
S-12 A/B/C/D	Operated according to current regulation schedule which includes rainfall plan
	target. Split 10/20/30/40 percent west to east.
S-333: G-3273 < 6.8'	S-333 open to deliver 55% of Shark Slough target flows as per rainfall plan target
	(rainfall formula + WCA-3A regulatory discharge).
S-333: G-3273 > 6.8'	S-333 closed
L-29 constraint	8.0 ft
S-337	Water supply only
S-151	Per current WCA-3A regulation schedule.
S-335	Start opening 7.2, full open 7.5
S-334	closed
S-338	Test 7 Phase I
	Start opening 5.5, full open 5.8
G-211	Start opening 5.5, full open 6.0
S-331	Start pumping 4.8, pumps down to 4.3
S-332B	Non-existent
S-332D	Non-existent
S-332	Operated according to Taylor Slough Rainfall plan with 465 cfs capacity, subject to
	165 cfs limitations from Mar 1 to Jul 15.
S-175	Start opening 4.3, full open 4.7
S-194 and S-196	Start opening 4.8 full open 5.3
S-176	Start opening 4.75 full open 5.0
S-177	Start opening 3.6 full open 4.2
S-18C	Start opening 2.3 full open 2.6
S-197	Open - see footnote ¹
	Close at 2.3

¹ S197: 95 Base criteria: Uses same as Test 7 phase I criteria, namely: Open 3 gates if S177 open and S177> 4.1 ft or S18C > 2.8 ft. Open 7 gates if S177 > 4.2 ft or S18C > 3.1 ft. Open 13 gates if S177 > 4.3 ft or S18C > 3.3 ft. Close when all following conditions are met: 1) S-176<5.2 and S-177<4.2, 2) Storm moved away from basin, and 3) after 1 and 2 are met, keep the number of S-197 culverts open necessary only to match residual flow through S-176. All culverts closed if S-177<4.1 after all conditions satisfied. In SFWMM flow is limited to keep stage above the gate closed levels specified above.